Backuppy Documentation

Release master

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CHAPTER 1

Indices and tables

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CHAPTER 2

Backuppy

2.1 About

Backuppy backs up and restores your data using rsync, allowing different routes to the same, or different destinations.

The following instructions can be executed in any system Python environment, but you may want to use a virtual environment. Alternatively, some actions can be performed using tox as well, which produces its own virtual environments in .tox/py**.

2.2 License

Backuppy is released under the MIT license.

2.3 Documentation

Extended API documentation is available at Read the Docs.

2.4 Usage

2.4.1 Requirements

• Python 2.7+

2.4.2 Installation

In any Python environment, run pip install backuppy.

2.4.3 Command line

2.4.4 Configuration

Configuration is written in YAML or JSON, and can be stored anywhere as \star .yml, \star .yaml, or \star .json files. An example of the smallest possible configuration file:

```
source:
  type: path
  configuration:
    path: ./source
target:
  type: path
  configuration:
    path: ./target
```

To create a new back-up configuration without writing code, run backuppy init and follow the interactive wizard.

To tweak Backuppy's output:

```
# An optional human-readable name for this back-up. It will default to the configuration file name.

name: Test

# Whether or not to generate verbose output. Defaults to `false`.

verbose: true

# Python logging configuration. This is specific to the Python version you are using.

Defaults to `null` for no logging.

# See https://docs.python.org/3.6/library/logging.config.html#logging-config-

dictschema.

logging:

version: 1

# ...additional logger and handler configuration.
```

Backuppy supports plugins for back-up source and target locations, as well as notifications.

To configure a local path-based target:

To configure a remote target over SSH:

```
type: ssh
configuration:
    # The host to connect to.
host: example.com
    # The SSH port to use. Defaults to 22.
port: 22
    # The name of the user on the remote system to log in as.
user: bart
    # The absolute path to the target directory on the remote.
path: /home/bart/target
```

The SSH key must have been accepted already, and the host must support Bash.

To specify multiple routes to the same target, such as one over a local network mount, and a fallback over SSH:

```
target:
  type: first_available
  configuration:
    targets:
    - type: path
       configuration:
        path: ./target
    - type: ssh
       configuration:
        host: example.com
        user: bart
        path: /home/bart/target
```

To configure user-facing notifications:

To display notifications to stdout and stderr (terminal output):

```
notifications:
- type: stdio
```

To display notifications using notify-send:

```
notifications:
- type: notify-send
```

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To process notifications through custom CLI commands:

```
notifications:
  - type: command
    # Commands are specified as CLI arguments. `fallback` is required if any of the
⇔others are missing.
   configuration:
     state:
        - echo
        - "{message}"
      inform:
        - echo
        - "{message}"
      confirm:
        - echo
        - "{message}"
      alert:
        - echo
        - "{message}"
      fallback:
        - echo
        - "{message}"
```

To append notifications to files:

2.5 Development

2.5.1 Requirements

- The generic requirements documented earlier.
- Bash (you're all good if which bash outputs a path in your terminal)

2.5.2 Installation

Run git clone https://github.com/bartfeenstra/backuppy.git.

If you wish to contribute code changes, you may want to fork this project first, and clone your own forked repository instead.

2.5.3 Building

```
In any Python environment, run ./bin/build-dev.
```

With tox, run tox --develop --notest.

2.5.4 Testing

```
In any Python environment, run ./bin/test.
```

With tox, run tox --develop

2.5.5 Viewing documentation

In any Python environment, run ./bin/build-docs, and open ./docs-build/index.html.

2.5.6 Fixing problems automatically

In any Python environment, run ./bin/fix.

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